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Thank you very much for your purchase of the Mikado LOGO 700 XXtreme. Prior to installation, please read and understand this manual completely and follow all instructions exactly. If any instructions are not clear to you or if you have any questions, you must contact us. You can reach Mikado on the LOGO-Forum on www.vstabi.info or contact the Mikado support hotline via email or phone. Do not under any circumstances fly this helicopter if you are unsure of setup or assembly.

This helicopter is not suitable for beginners. It is expected that you have some experience in assembling and operating an RC helicopter (model size LOGO 400 to LOGO 600, for example). You are required to adhere to the safety instructions of this manual.

The LOGO 700 XXtreme comes partially pre-assembled, i.e. the structural components are already screwed together. However, the screws are not yet secured with Loctite. Throughout the manual you will not always be asked to secure each screw. Nevertheless, you must secure all screws in all components yourself. In addition, it is necessary that you secure all other screwed connection, by which you will assemble the different components of the LOGO 700 XXtreme. We recommended to use securing glue Loctite 243 (blue). Please follow the recommendations of the Loctite manufacture and allow proper curing time for the Loctite prior to flying the model.

#### Safety Instructions:

RC Helicopters are not toys and must be treated with due diligence. Unless you use this helicopter responsibly it can cause of severe injury and immense damage. Inappropriate use of this product can result in injury or death. Each user must have the appropriate knowledge and skill to operate any RC Helicopter. Manufacturer / reseller assumes no liability for the use or operation of this helicopter.

You are responsible for any injury and damage that may be caused by this helicopter. It is recommended that your radio components be tested prior to installing in this helicopter. Improper radio installation or inadequate battery voltage can result in the loss of control of the helicopter. Proper knowledge of your radio equipment is required prior to flying this helicopter. You must check if other persons are using an RC-controlled model or device simultaneously, as this may result in interference. If the helicopter behaves in an unusual or strange way, you must land it immediately and turn off the power. Please meticulously check all of your radio gear and find/fix the problem before you continue to operate the helicopter This is to avoid any accidents. As one irregularity can cause other defects or problems, an increased risk of failure will ensue, if the first problem is not fixed.

#### Additional precautions for the prevention of injuries or damage:

Before you power on the helicopter, you must ensure that all screws and associated hardware are secured. One single lose screw can cause the helicopter to become uncontrollable resulting in a crash or injury to personnel.

Also it is very important that you must check the model frequently and exchange any parts that show signs of deterioration or wear.wearing out. Failure to complete frequent pre and post flight inspections will result in flying an unsafe model and increasing the risk of damaging the helicopter and possibly injuring yourself and/or others. Use only original Mikado parts and electronic components which are recommended by Mikado.

Always keep a minimum of 10 yards away from a spinning rotor head. Components that run hot such as the ESC and Motor should never be touched until ample cool down time has been provided.

#### Before powering on the helicopter:

Never operate the helicopter inside closed rooms as this helicopter is intended for operation outside and may only be operated in sites where operation of Radio Control models is permitted. . Keep the helicopter at safe distance to any persons or live animals at all times. When trimming, keep a minimum distance of 10 yards for safety and never operate the helicopter alone. Always take someone with you, who can help in emergency situations.

The helicopter must also not be operated in the following circumstances:

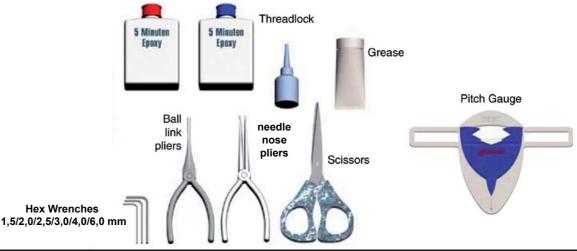
- when children are present or in places where people are gathering
- close to houses or in park areas
- inside any rooms or buildings
- · places with limited space
- in adverse weather conditions, such as rain, snow, hail or during strong winds
- Near trees or High Tension wires

#### Techical specifications which must be obeyed during the operation of the LOGO 700 XXtreme:

- maximum rotor head rpm: 2100 U/min.
- maximum pitch travel: +/- 12°
- Length of rotor blades: 700 to 750mm
- Lipo battery: 2x 6S 5000 mAh
- admissible temperature 0° 35° Celsius

If these values are exceeded, the electronic components may experience overload. This may result in damage or a crash of the helicopter.

Before the first flight, you must check proper functioning of the motor, the ESC and the VBar. To do this, please refer to the respective manuals. For safety reasons, these tests should be performed without mounting the main rotor blades and the tail rotor blades. It is advisable to fly moderately during the first flights. This is because you need to get used to the new size of this helicopter during the first few flights. Do not underestimate the size and power of this helicopter. Keep a safe distance from the ground to provide for ample reaction time.

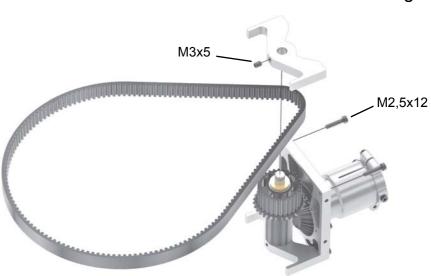




Please check if the RC-plate is fitted tightly between the frames, so that it cannot move.

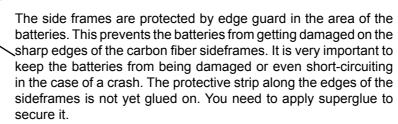
If the RC-plate is loose, please apply glue (speed glue or hot glue) to fix. A moving RC-plate can lead to vibrations and malfunction of the gyro sensor!

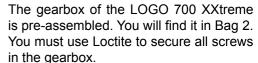


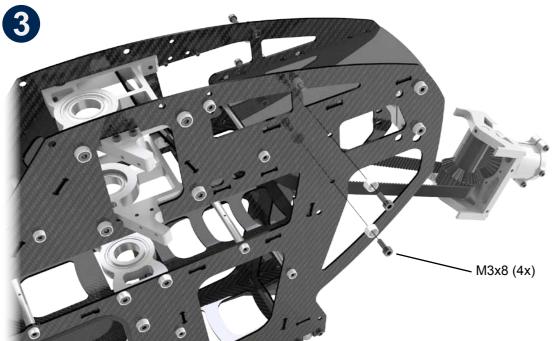


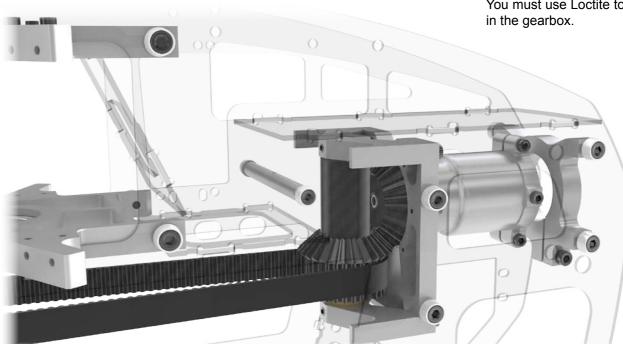
The mainframe of the LOGO 700 XXtreme is pre-assembled. You will find it in Box 1. Note that the screws are not secured. You must use Loctite to secure all screws in the mainframe.

> Please note, when assembling the gear box: First tighten the set screw M3x5. While doing so, press the upper and lower frames together. Then secure the two hex screws M2.5x12. Finally check the gear mesh before installing the gear box into the chassis. The belt pulley must not have axial play.

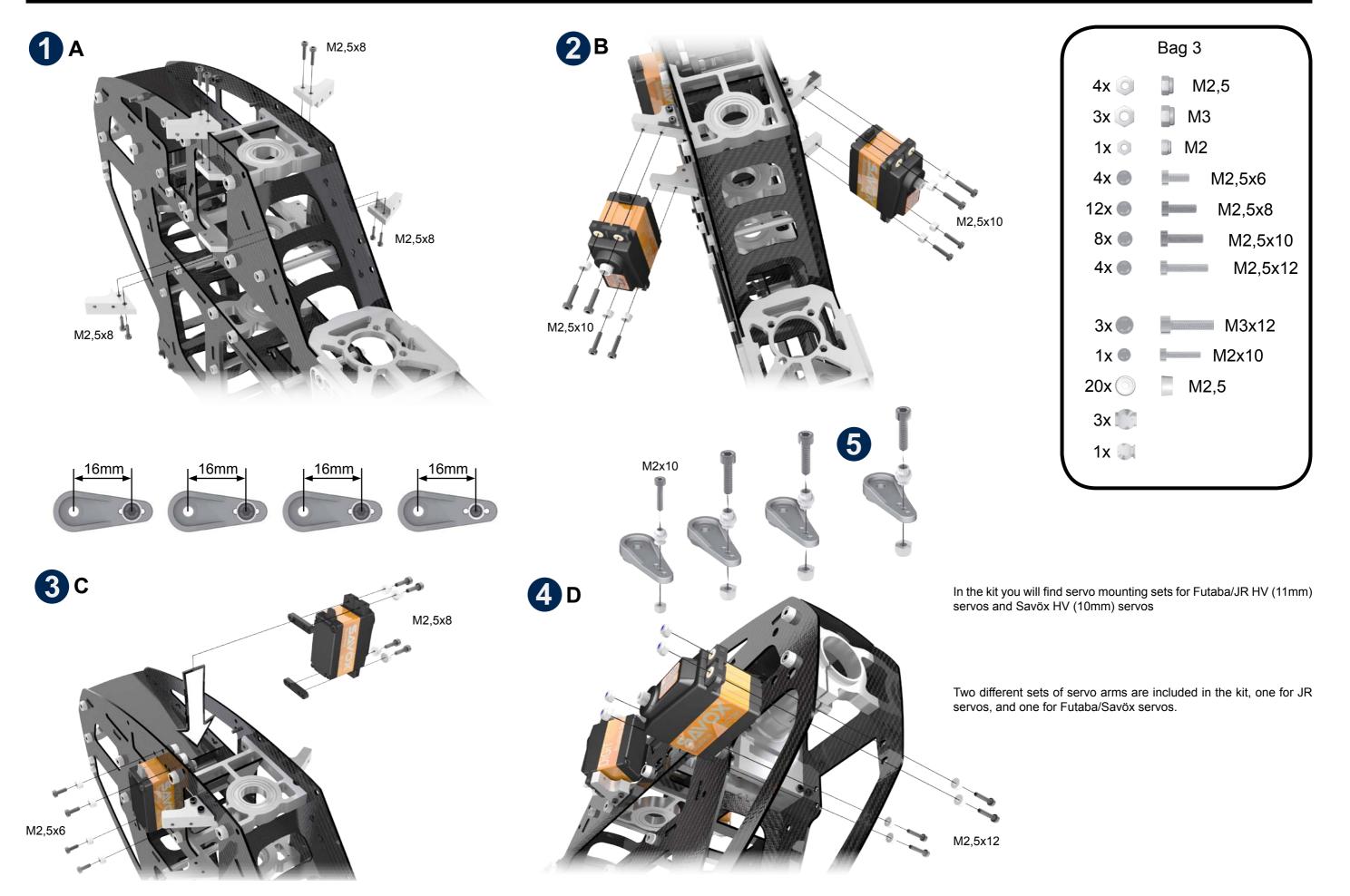




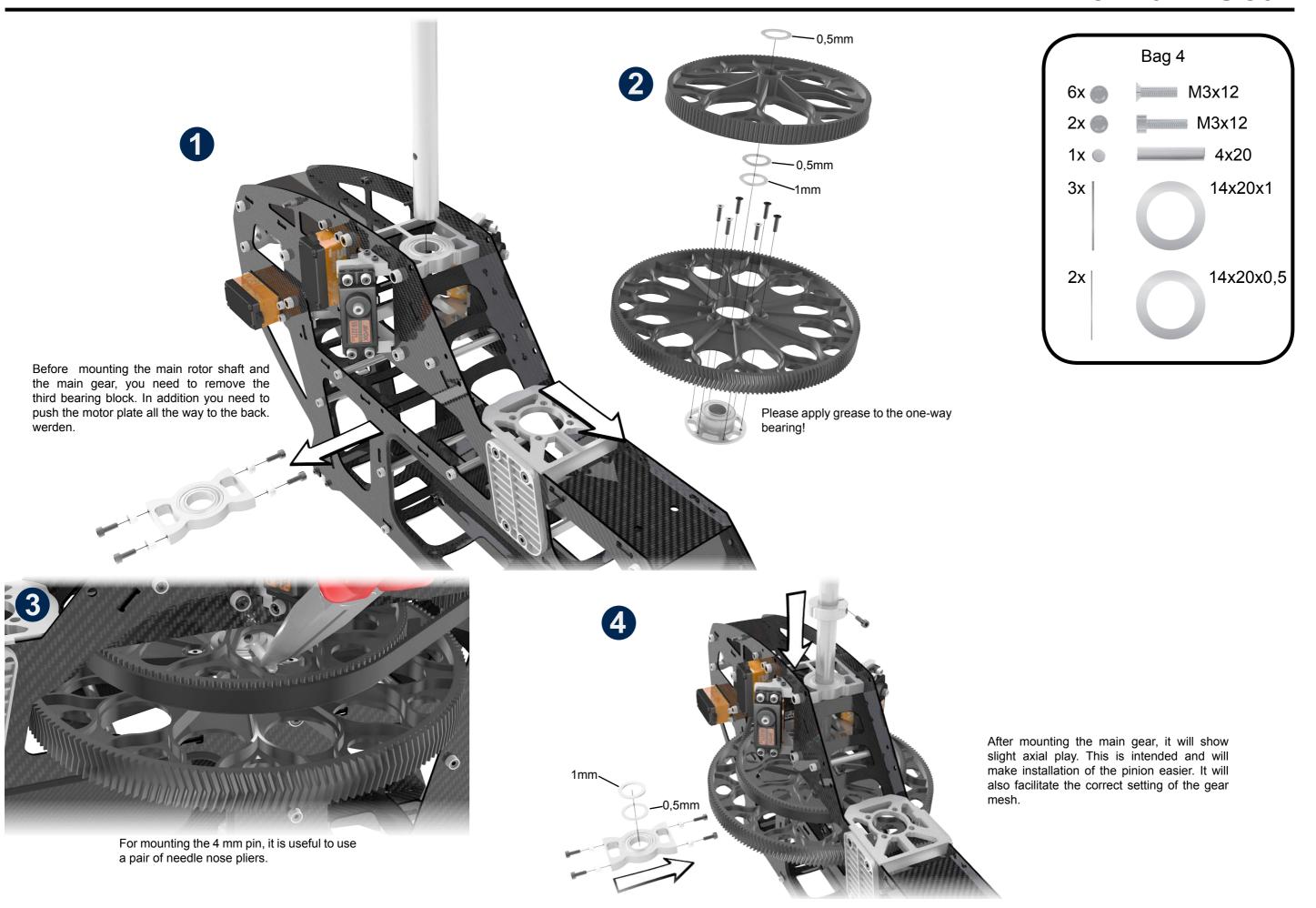




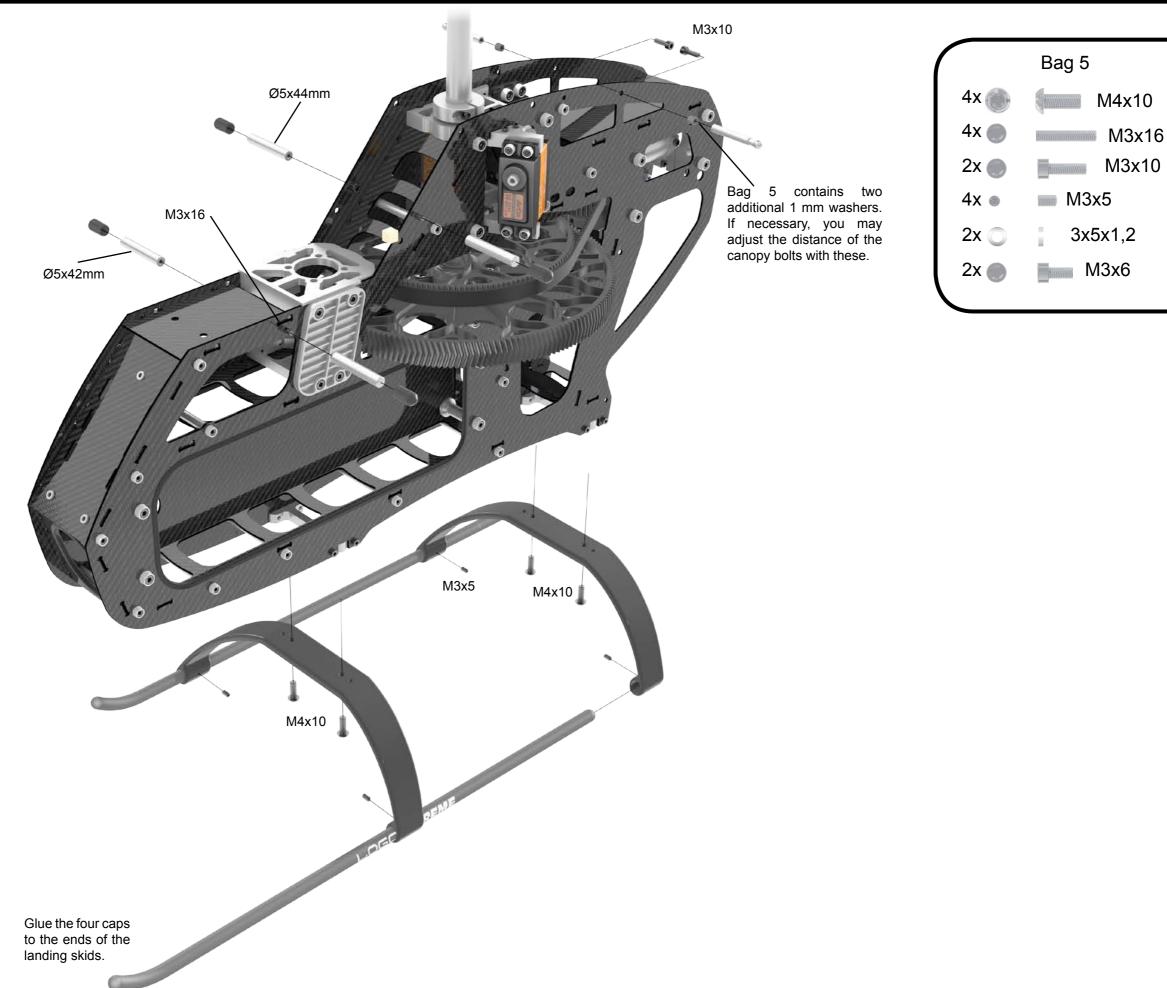
### 2 Servo Mounting



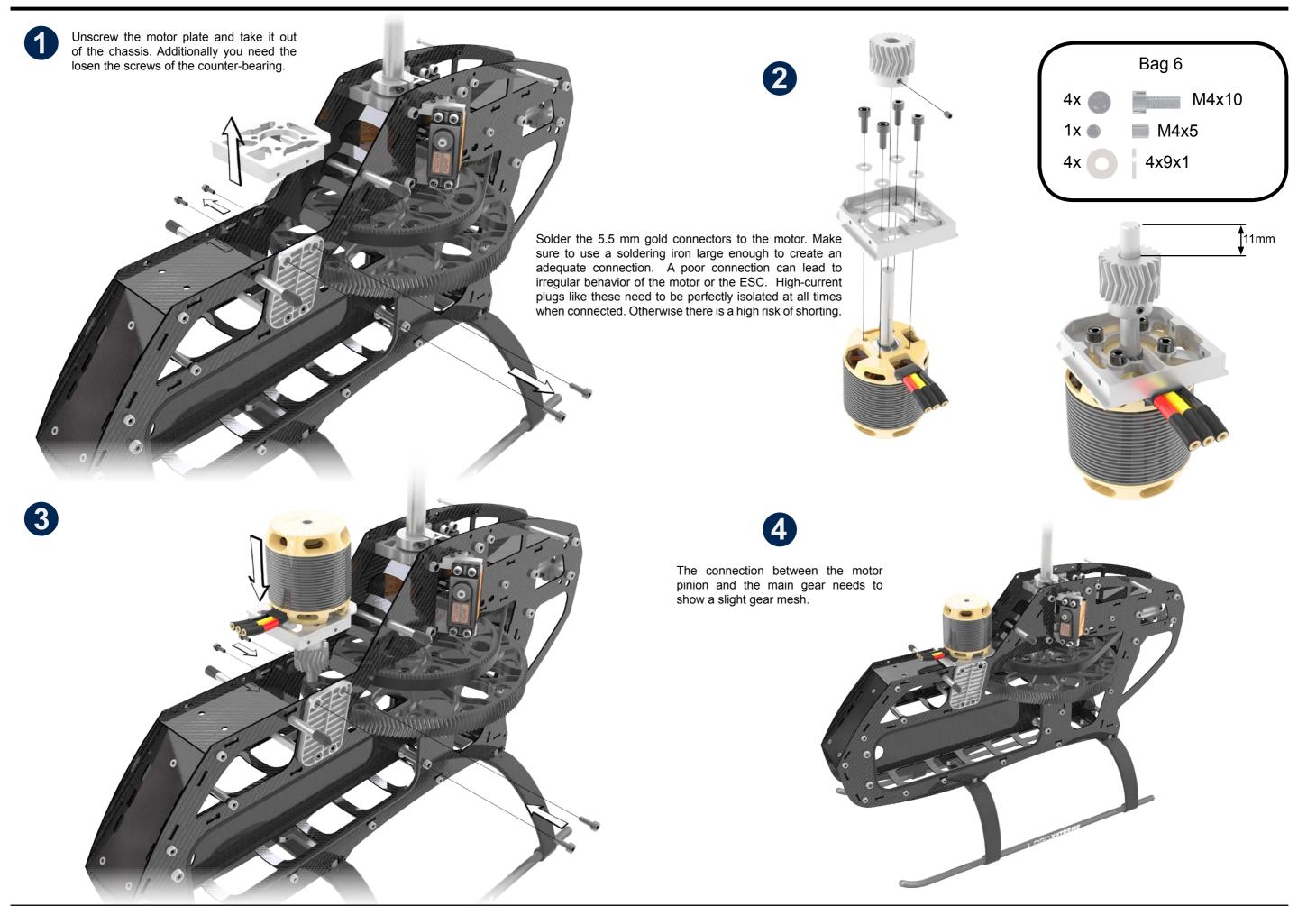
### 3 Main Gear



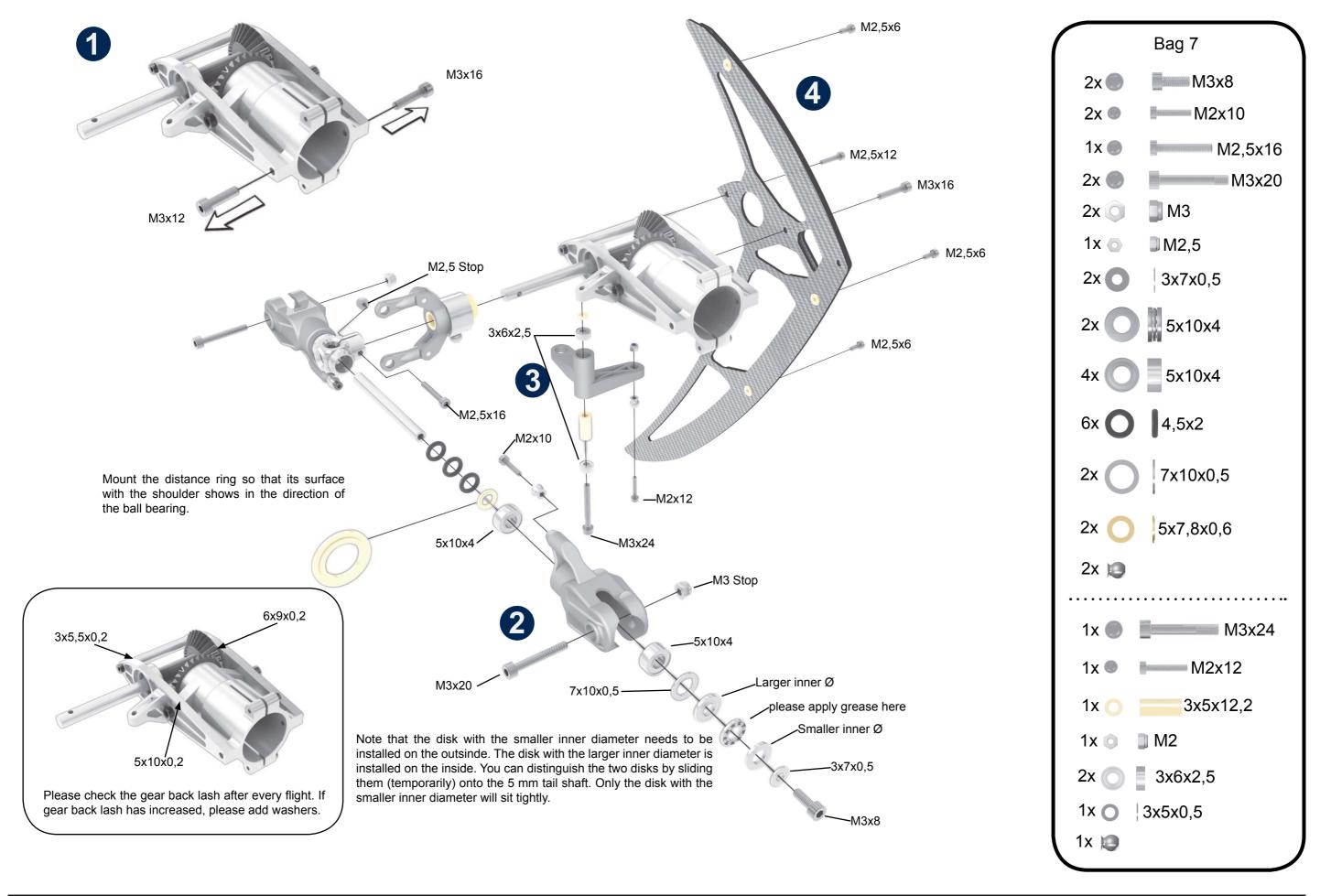
## **4 Landing Struts and Canopy Holder**



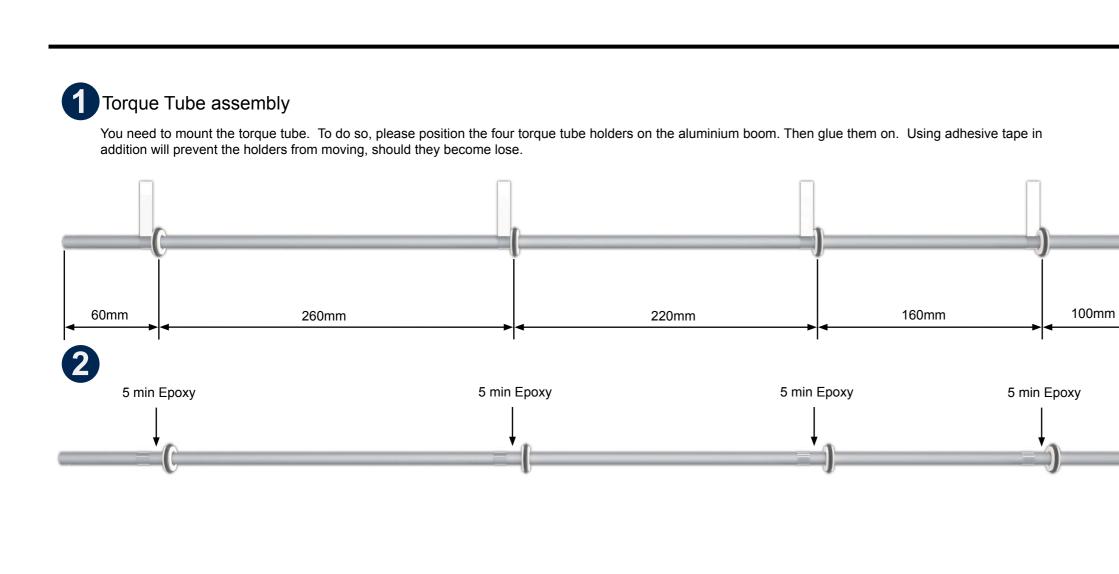
#### **5 Motor Installation**

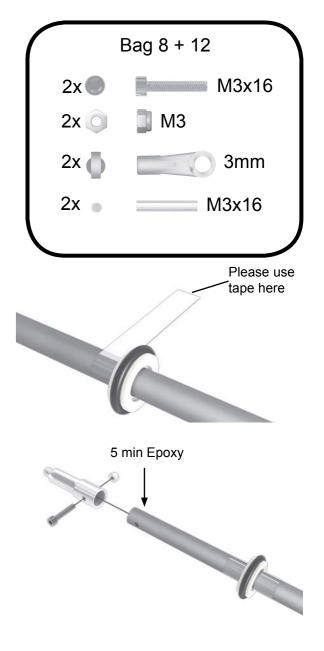


#### **6 Tail Rotor**



### 7 Torque Tube





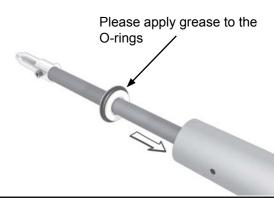


5 min Epoxy

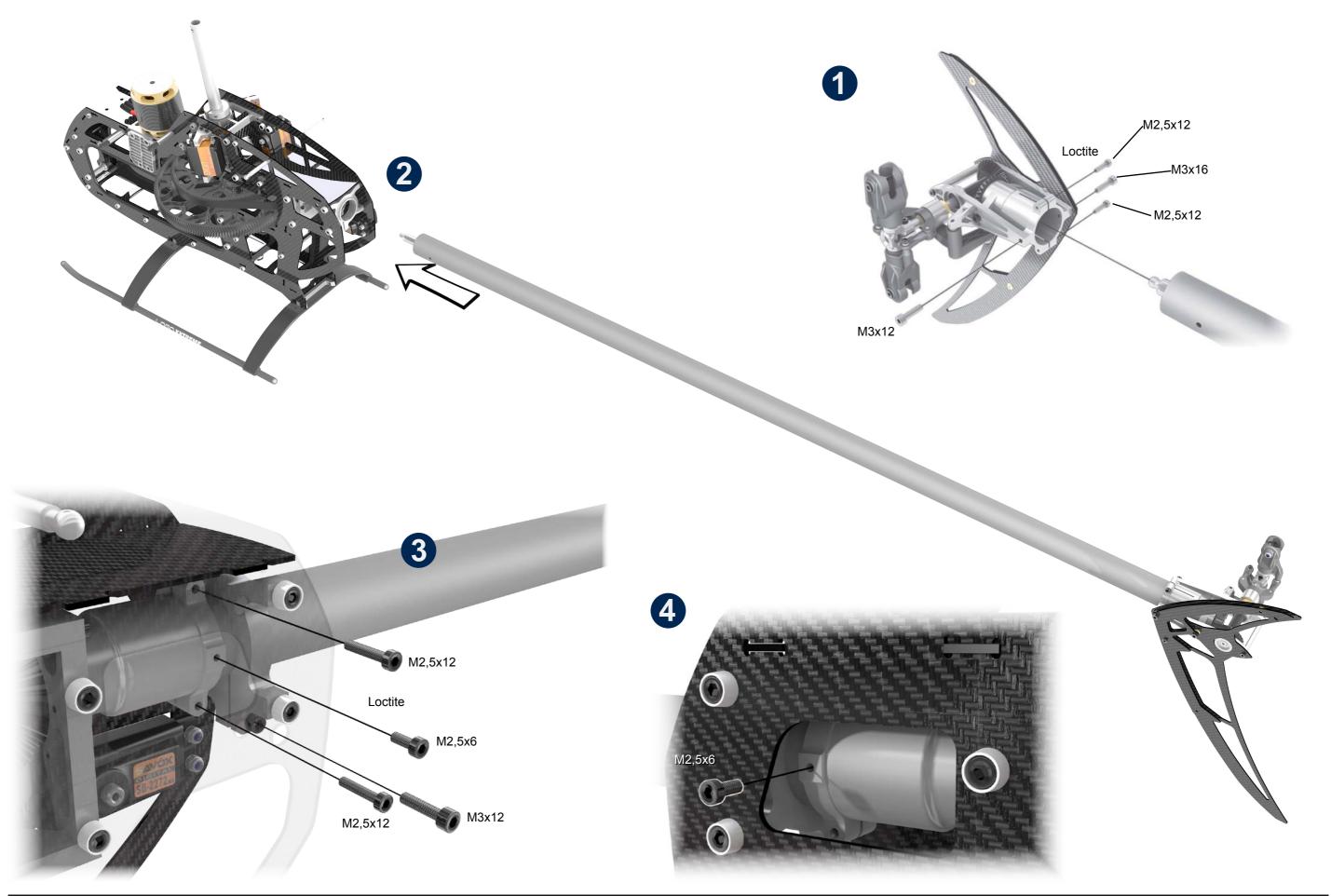
Before pushing in the torque tube, please ensure that the inside of the boom is clean. If necessary, clean it out with a piece of cloth.

4 Carbon tail rotor push rod

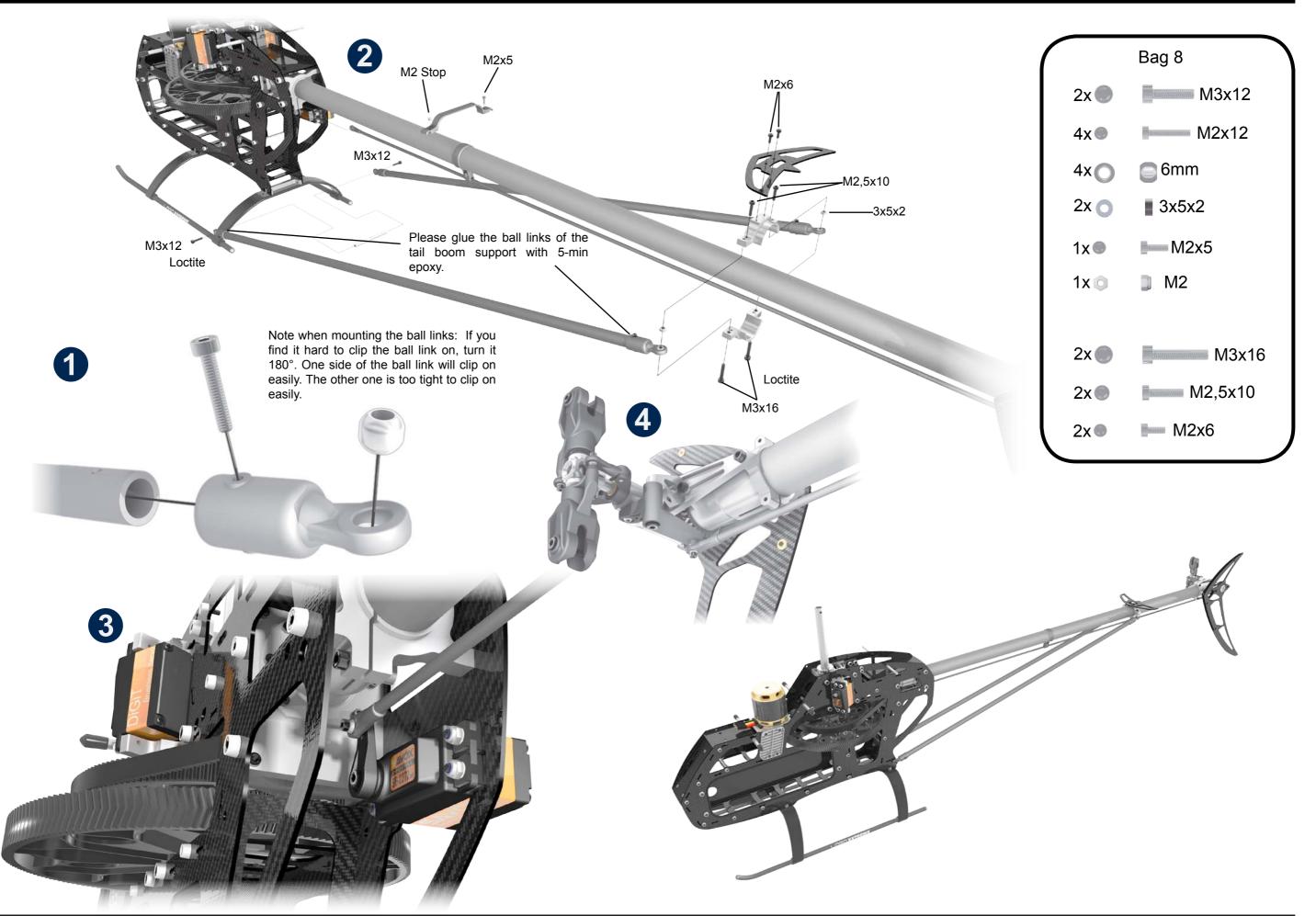
Important: Before pushing in the mounted torque tube, generously apply grease to all four O-rings and to the inner surface of the tail boom.



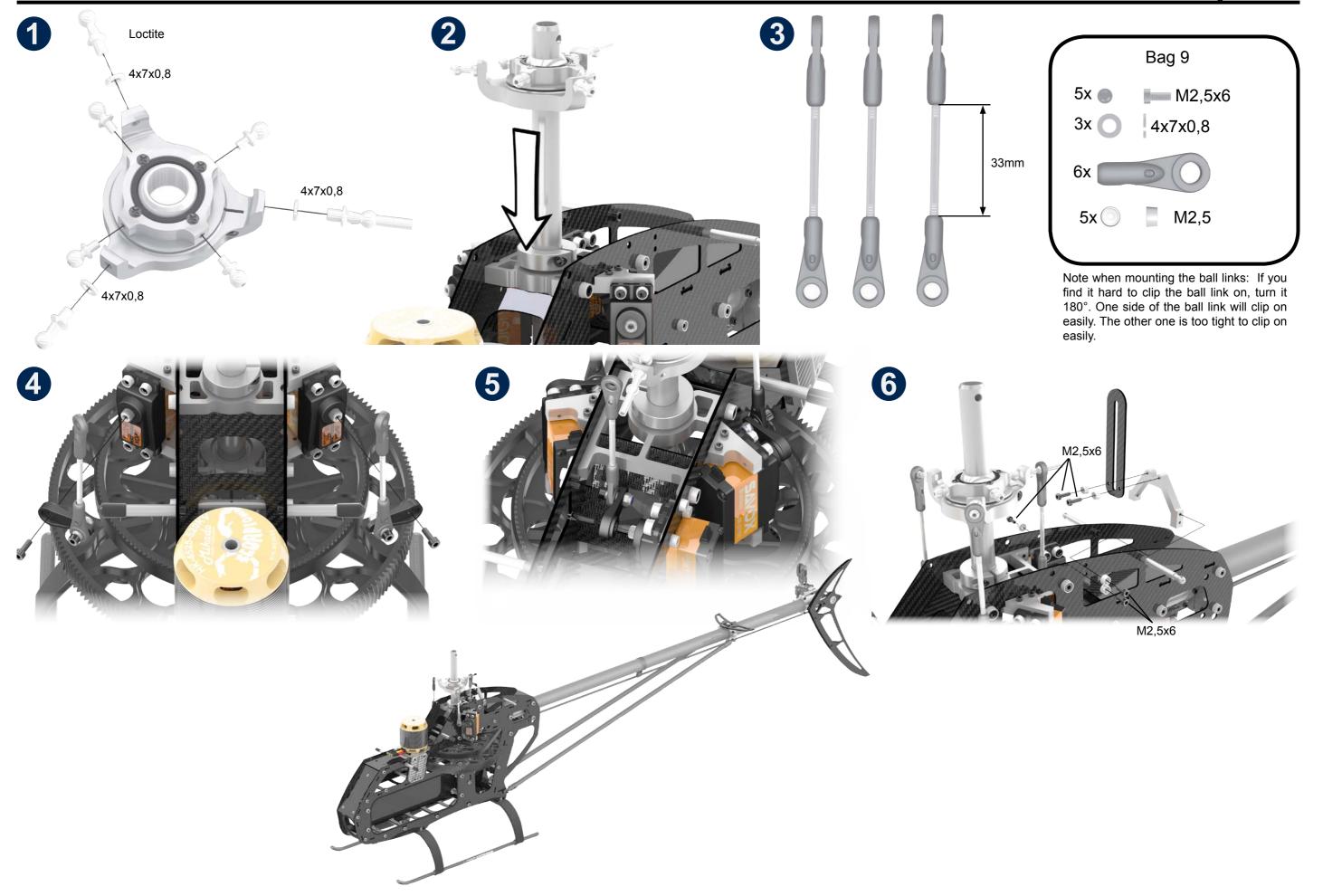
## **8 Tail Boom Mounting**



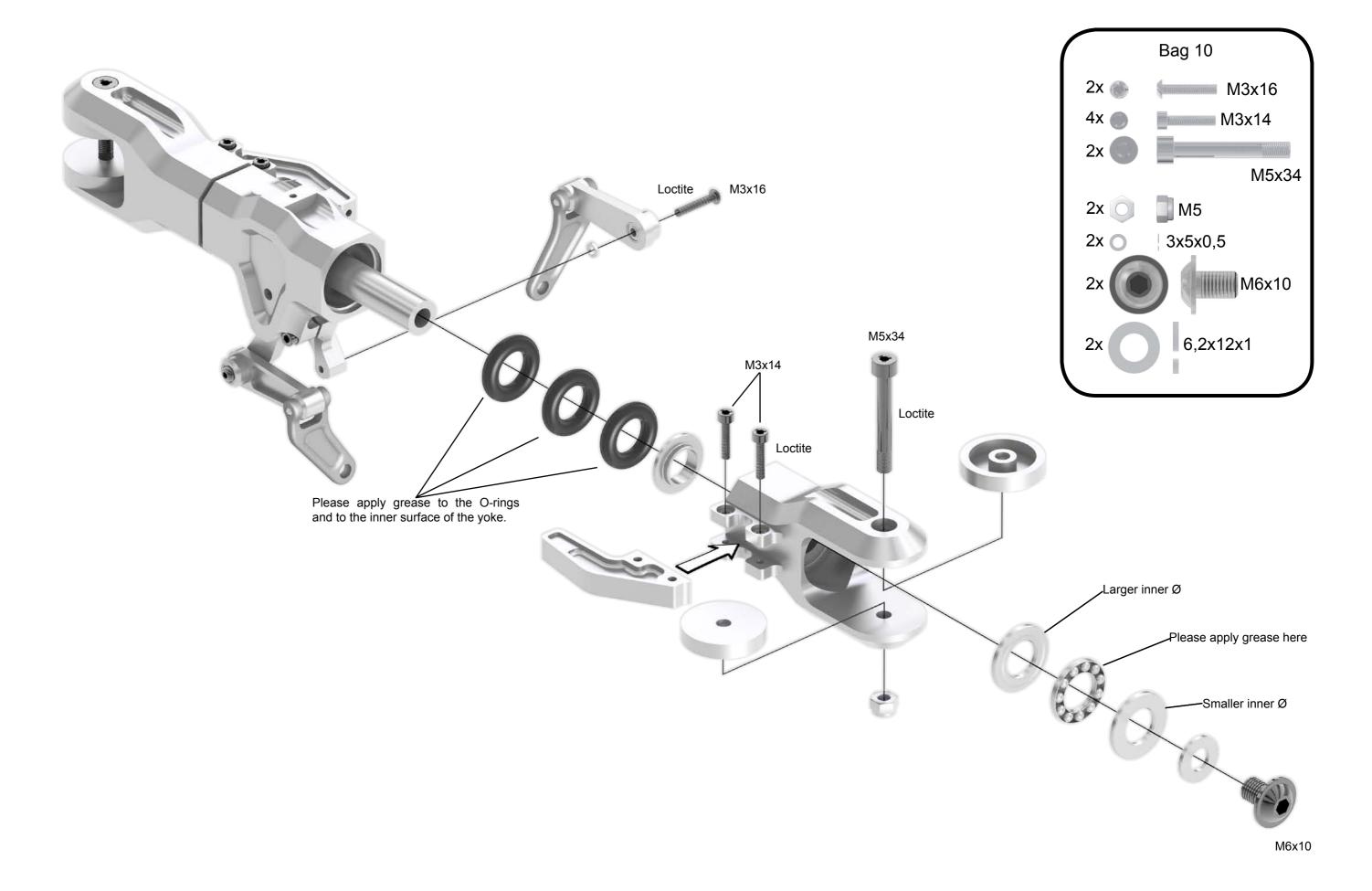
#### 9 Tail Boom Brace



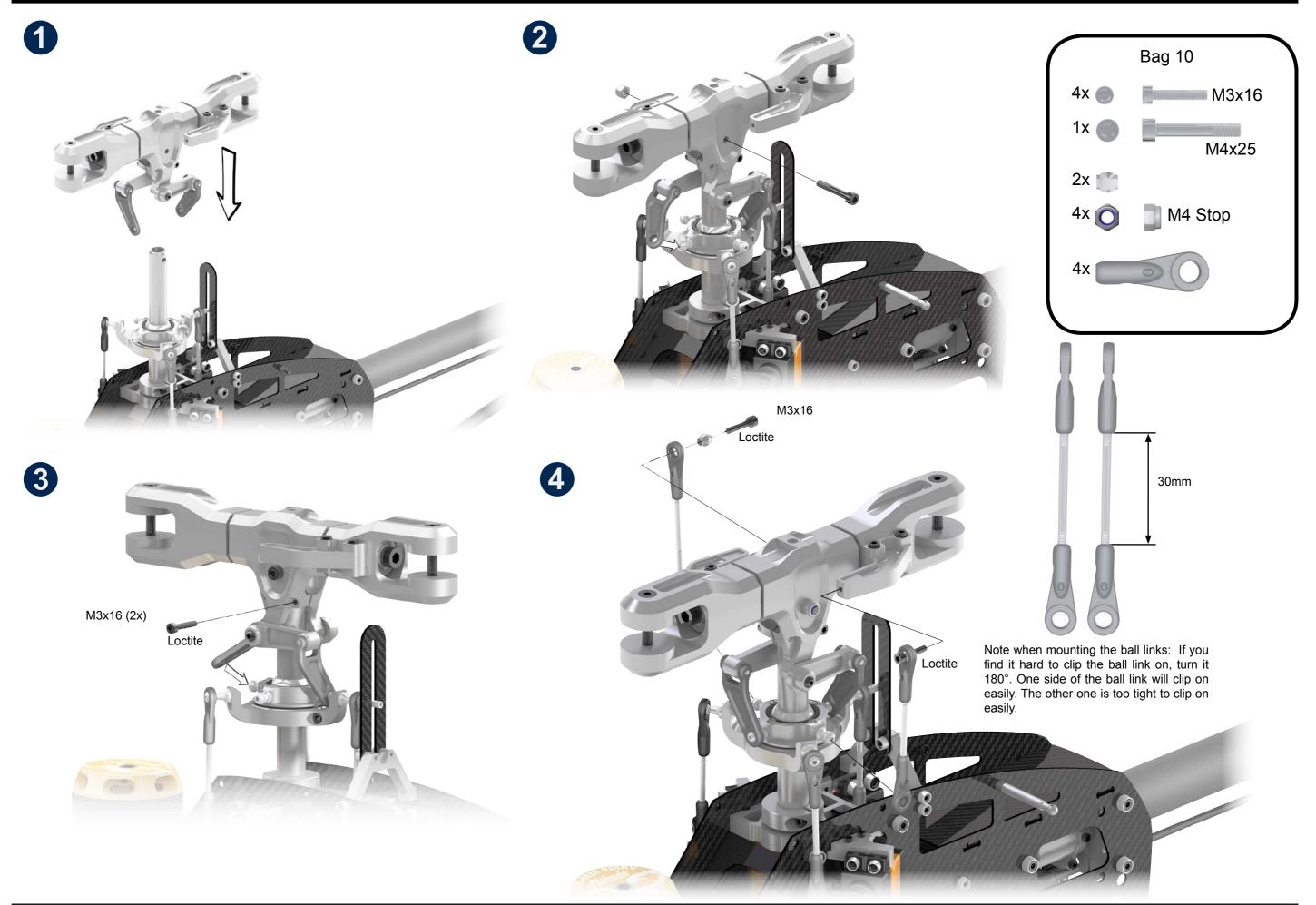
## 10 Swashplate



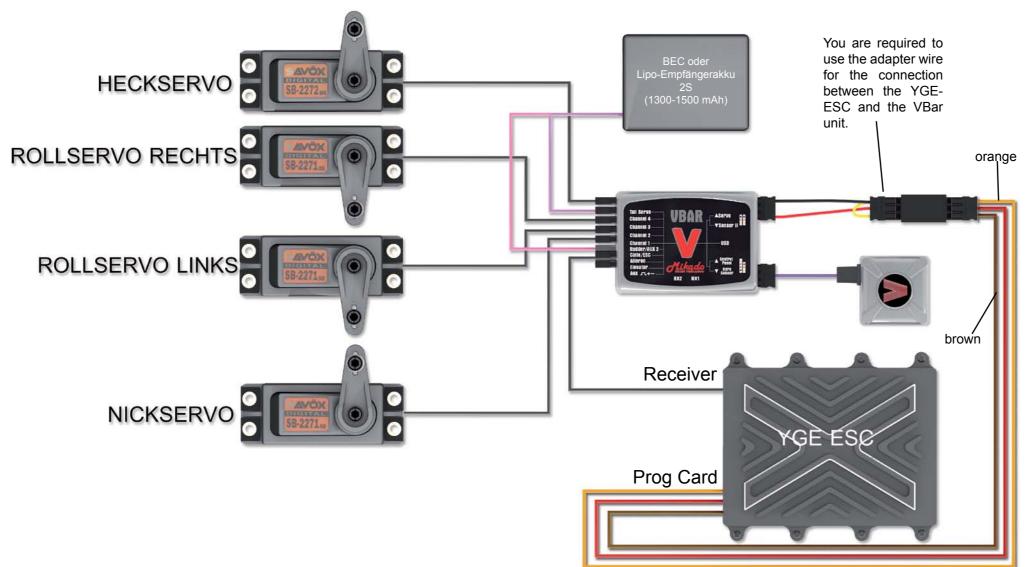
#### 11 Rotor Head



## 11 Rotor Head



### **12 Wiring RC Components**



#### YGE ESC:

The YGE 160 provided in this combo is a special version ESC which is already programmed. It will function exclusively in combination with the governor function of VBar. For programming the governor function, please follow the steps in the VBar software shown in the two screen shots below. Should you intend to use the YGE 160 with any other application, it is necessary that it is re-programmed. Information on reprogramming can be obtained from YGE (www.YGE.de). More information on the VBar Governor function can be obtained on www.vstabi.info.

#### VBar:

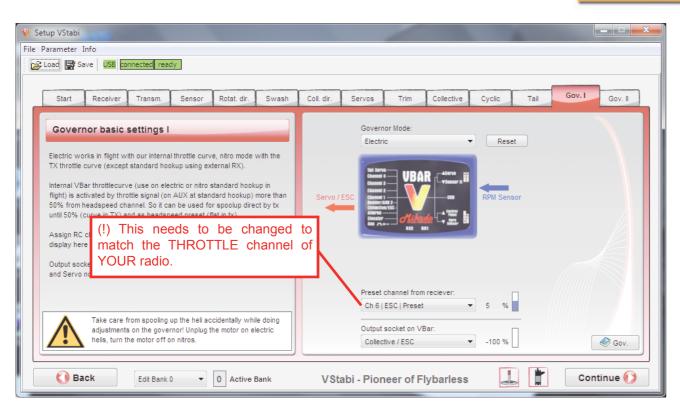
The VBar provided here contains the 5.3 PRO Software. For programming the VBar for LOGO 700 XXtreme, please use the setup wizard.

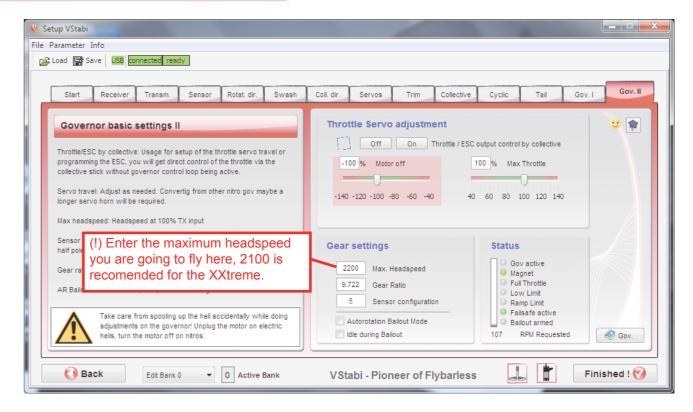
#### BEC/receiver battery:

We highly recommend using a BEC that can provide two power leads to the Receiver/RC Components.

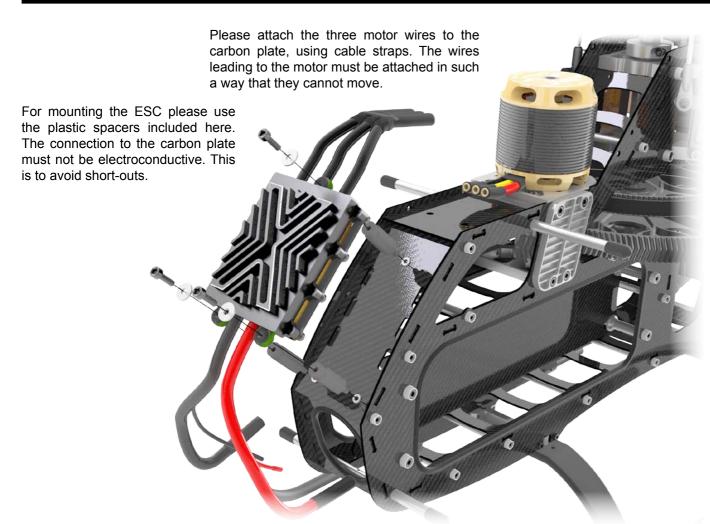
#### Wiring

Please note: With a carbon frame like the one in this LOGO 700 XXtreme, all wires must be placed in such a way that they cannot be damaged by any sharp edges during operation of the helicopter. Please apply the fabric tube and the edge guard provided in this kit. Both types of protection are also available individually from Mikado.



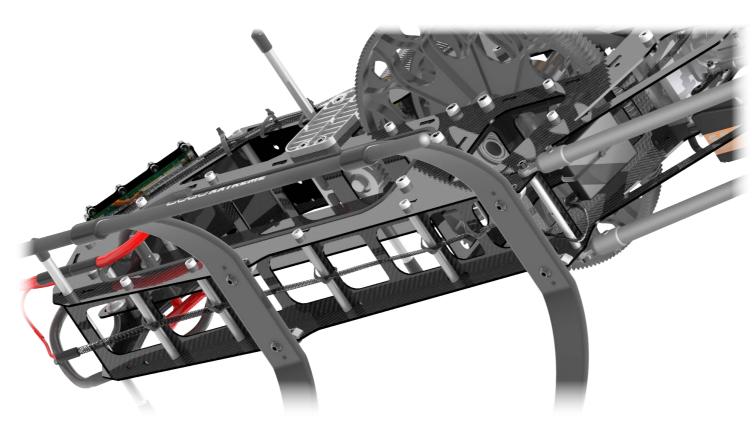


### 13 Mounting ESC and Voltage Regulator

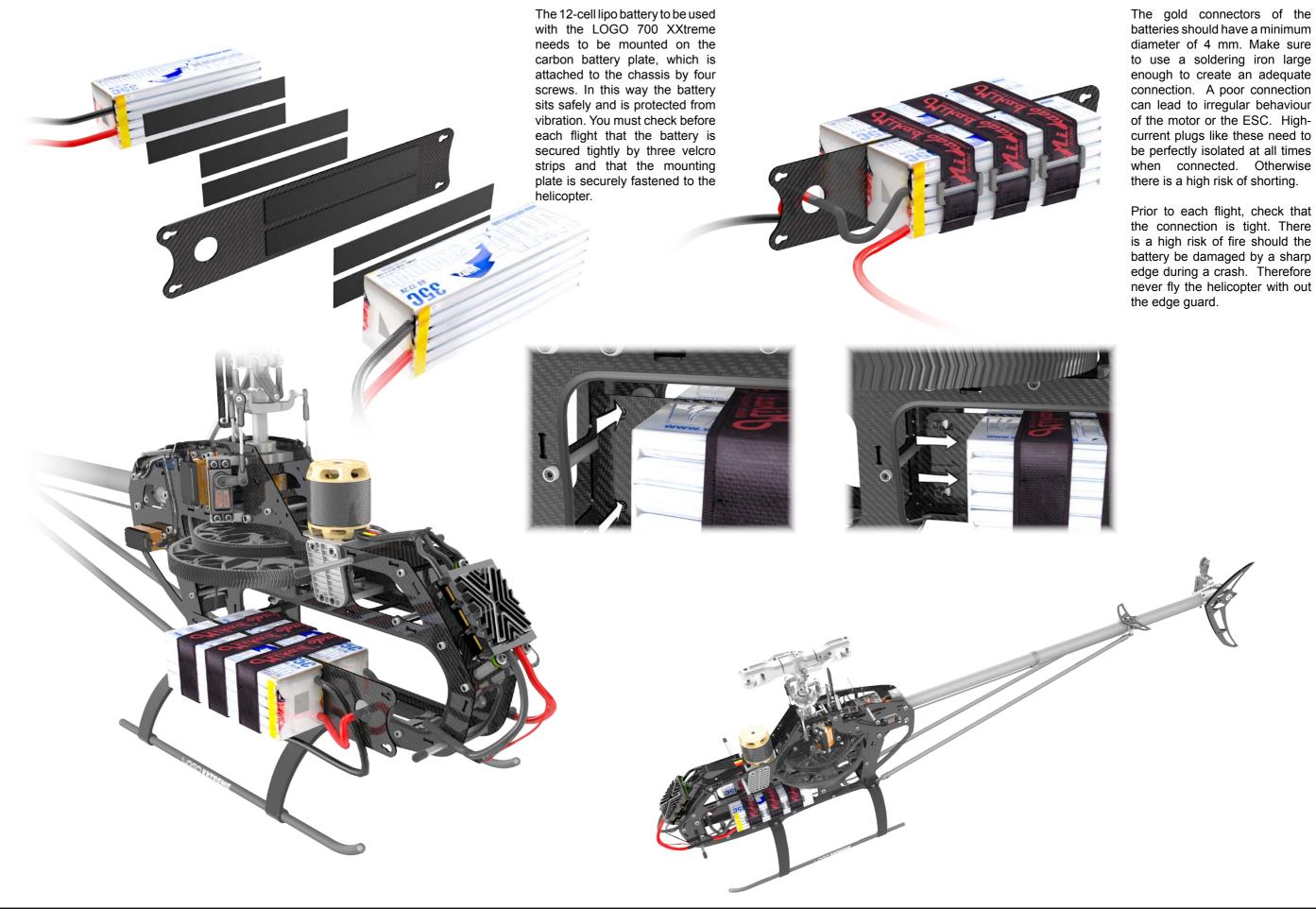




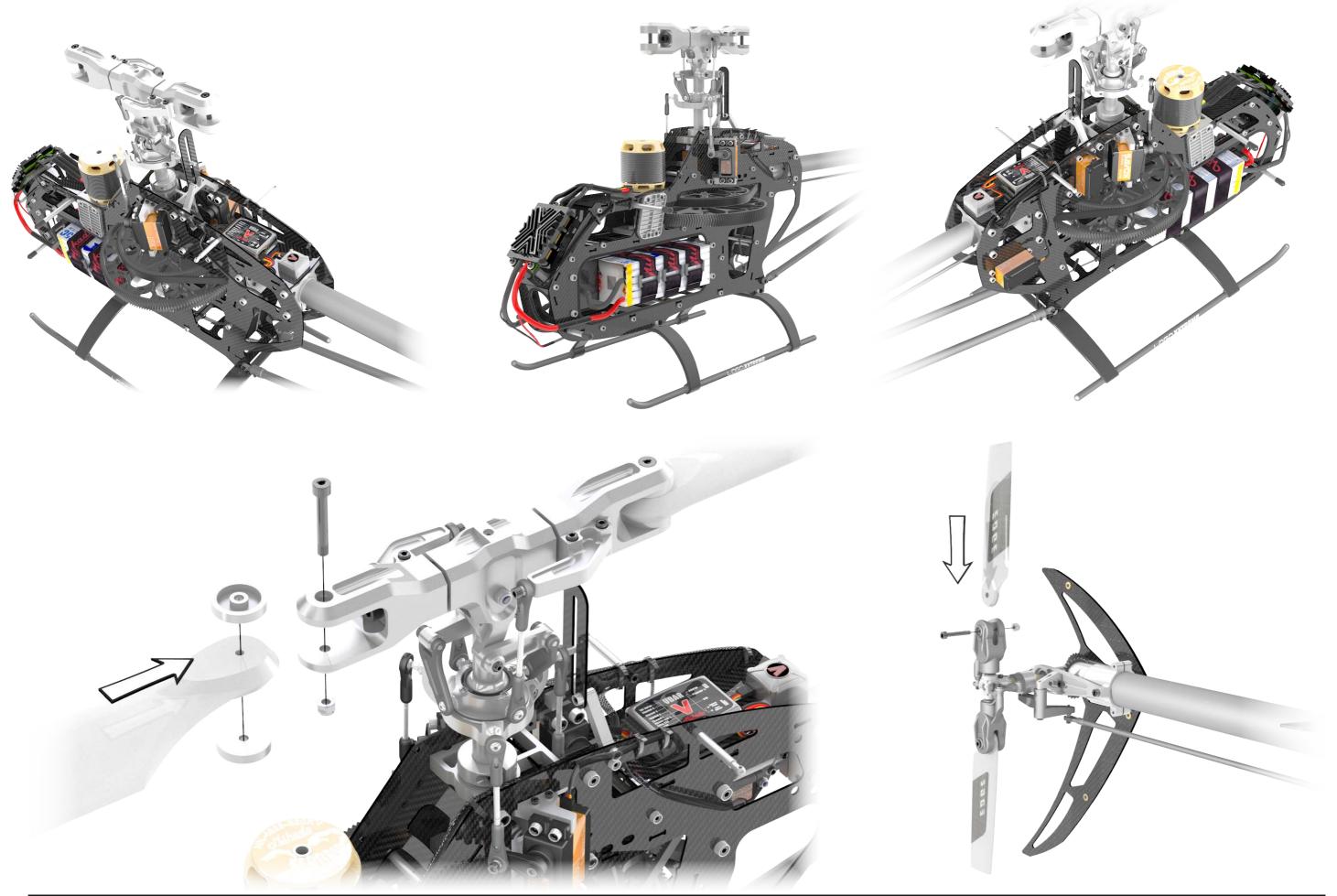
Take special care when placing the wires. Check that the wires cannot rub against the sharp edges of the chassis even if the helicopter should vibrate violently. We recommend to use the fabric tube included here, to protect the wires in suitable places. You may order additional fabric tube (Mikado item no. 4594)



### **14 Battery Mounting**



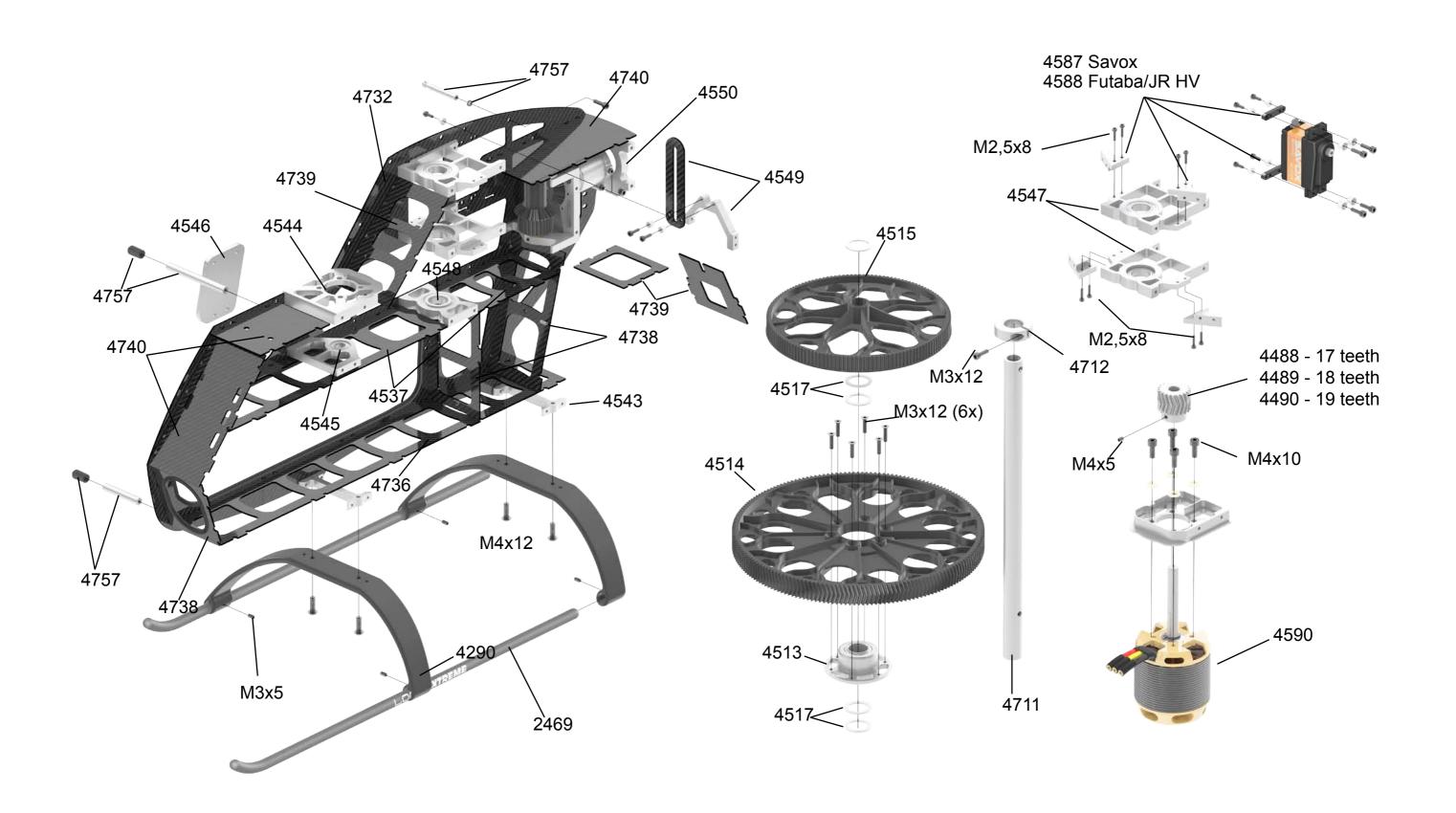
## 15 Main Rotor Blades and Tail Rotor Blades



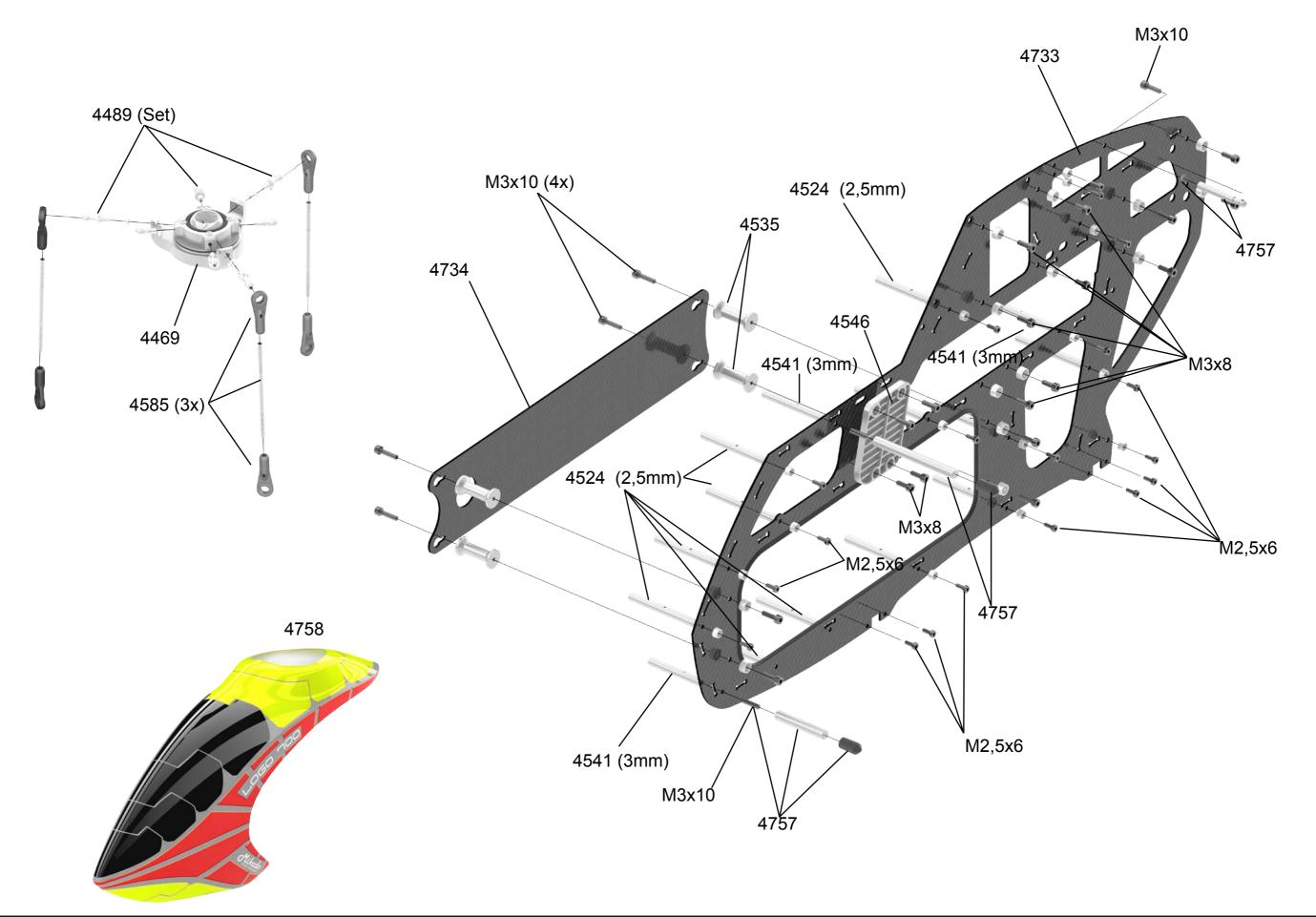
### 16 Canopy and Overview



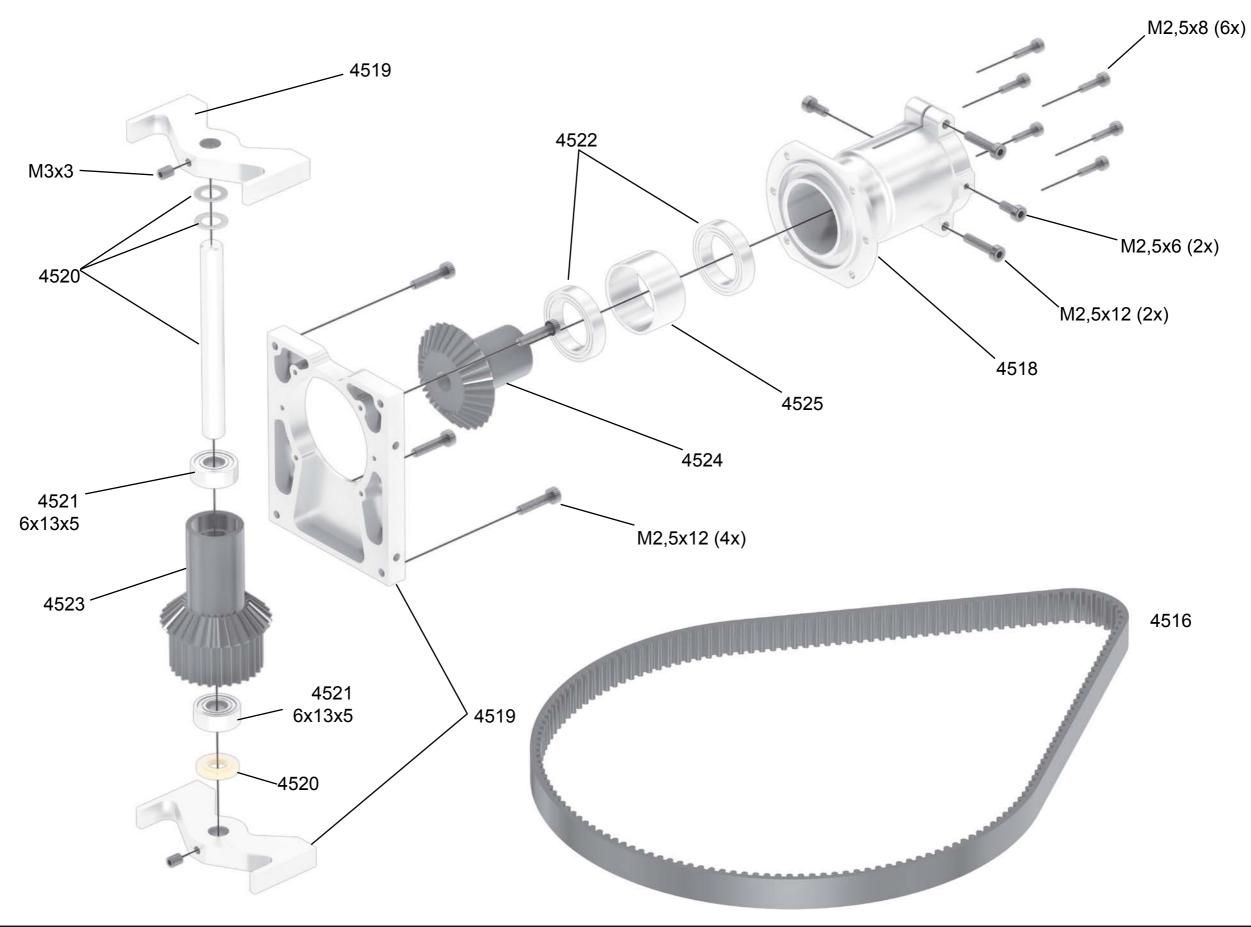
### 17 Overview Spare Parts Mainframe



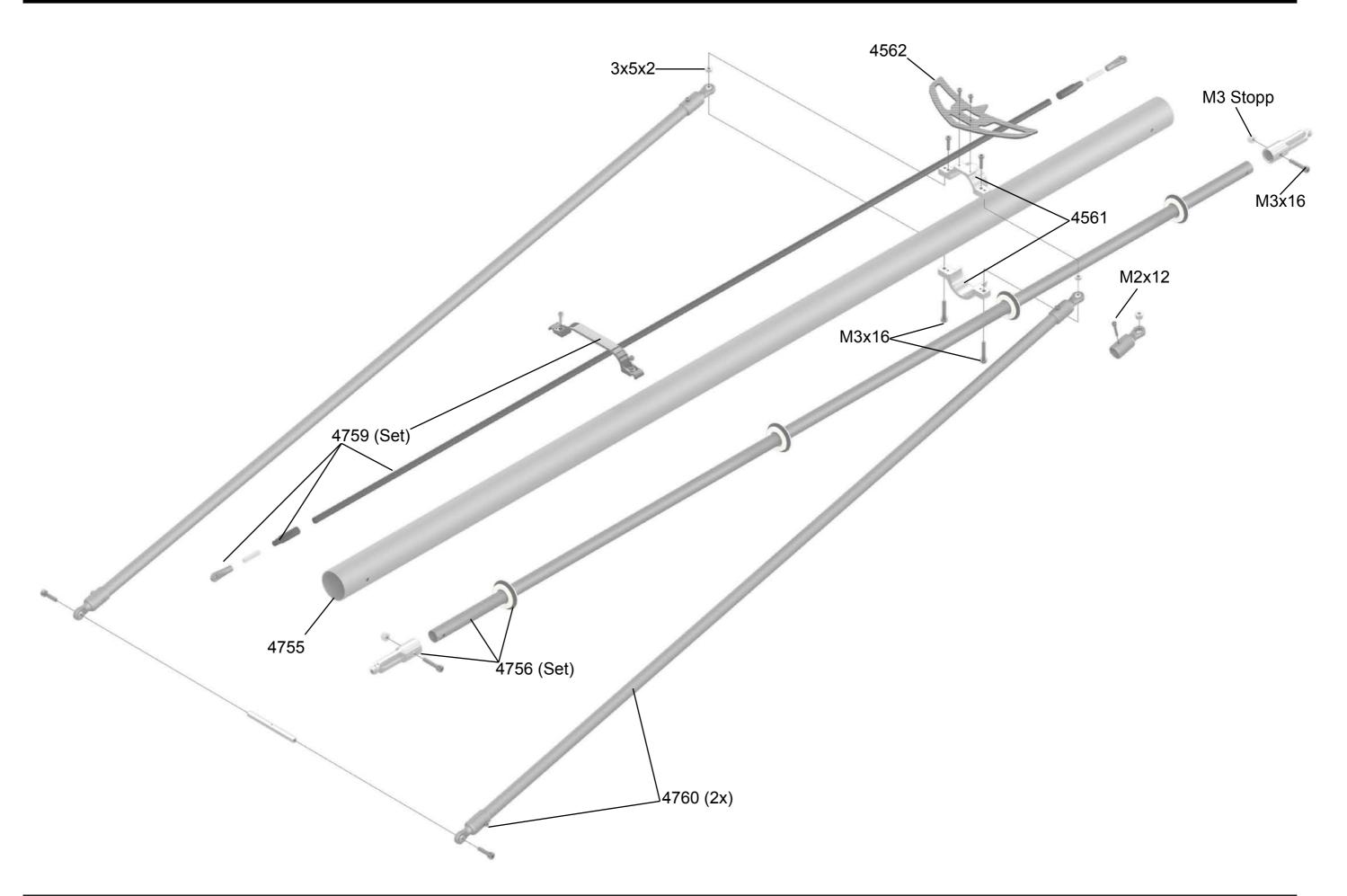
## 17 Overview Spare Parts Mainframe



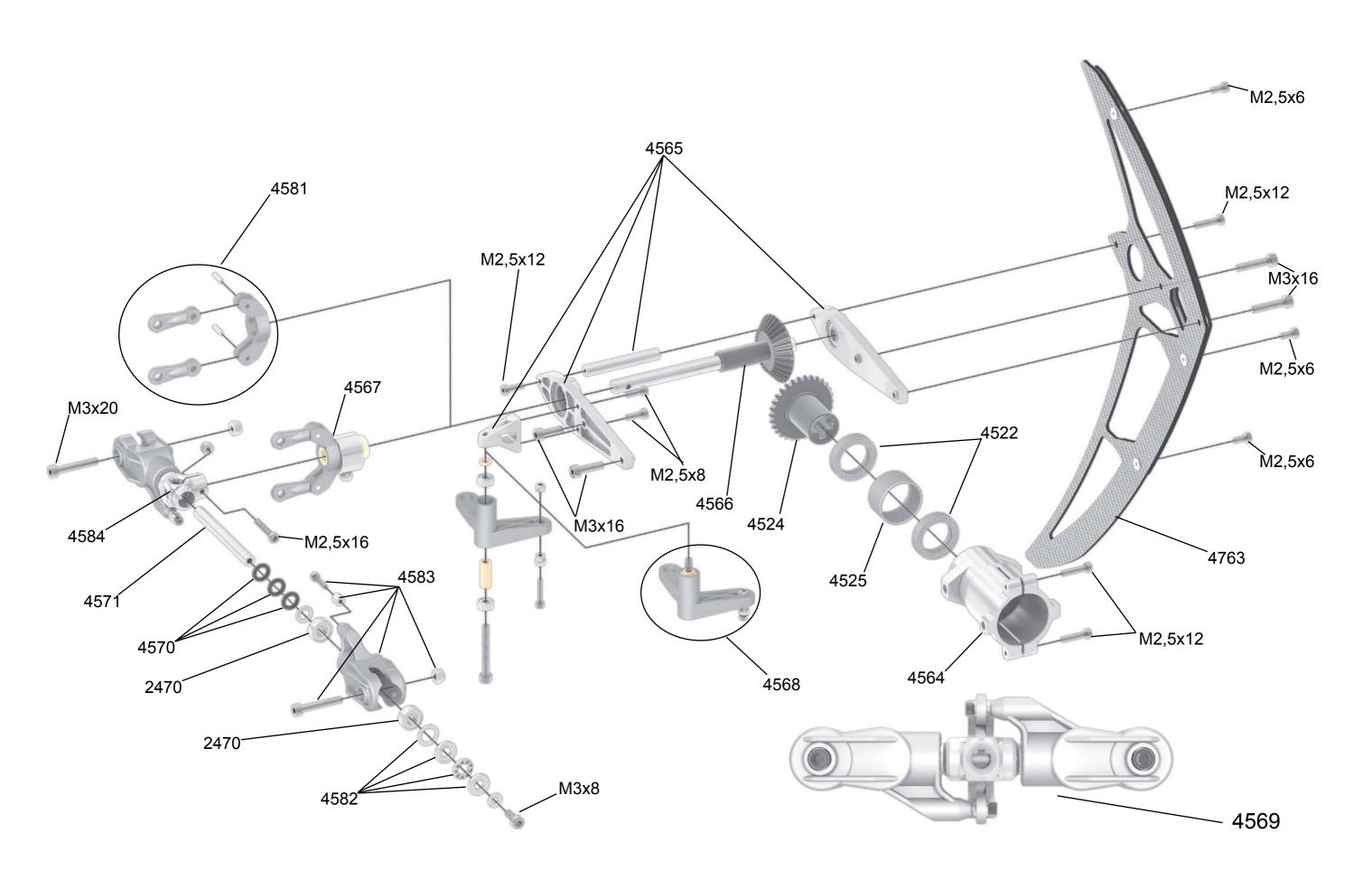
## 18 Overview Spare Parts Gear Box



## 19 Overview Spare Parts Tail Boom



## 20 Overview Spare Parts Tail Rotor



## 21 Overview Spare Parts Rotor Head

